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DIALOG(R)File 351:Derwent WPI

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Thermoplastic elastomer with good mouldability - comprises partially crosslinked polyethylene-alpha olefin copolymer rubbers and polyolefin resin

Patent Assignee: MITSUI PETROCHEM IND CO LTD (MITC)

Number of Countries: 001 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
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| JP 57063343 | A | 19820416 | JP 80138601 | A | 19801003 | 198221 B |
| JP 87005460 | B | 19870205 | | | | 198709 |

Priority Applications (No Type Date): JP 80138601 A 19801003

Patent Details:

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|-------------|------|--------|----------|--------------|
| JP 57063343 | A | 8 | | |

Abstract (Basic): JP 57063343 A

Thermoplastic elastomer contg. essentially (a) partial crosslinked prod. of peroxide crosslinking type ethylene. Alpha-olefin copolymer rubber having a Mooney viscosity (ML1+4 at 100 deg. C) of 70-170, (b) partial crosslinking prod. of peroxide crosslinking type ethylene. Alpha-olefin copolymer rubber having a Mooney viscosity (ML1+4 at 100 deg. C) of 5-40 and (c) polyolefin resin.

Pref. components (a) and (b) are used in wt. ratio 90/10- 10/90, esp. 80/20-30/70 with the (a)-(b) mixt. having a Mooney viscosity of 50-120, pref. 60-100. Ethylene alpha-olefin copolymer rubber pref. includes random copolymer of ethylene and propylene or 1-butene. The copolymer comprises ethylene and alpha-olefin in molar ratio 50/50-90/10, pref. 55/45-85/15. If desired, the copolymer may contain polyene component in an amt. such that an iodine value of the copolymer becomes 4-75, pref. 8-40.

The thermoplastic elastomer has excellent mouldability, heat resistance and weatherproof property, large strength, flexibility and resilience. It is used for moulding body panels, shoe soles, electric parts, gaskets, etc.

Derwent Class: A17

International Patent Class (Additional): C08K-005/14; C08L-023/16

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